

# ABSTRACT

In a fluorescent display device wherein light is emitted by impinging a low speed electron beam on a phosphor layer formed on an anode, the phosphor layer comprises a compound containing W and/or a compound containing P, K and/or Na. The compound containing P, K and/or Na may be a compound selected from the group consisting of  $K_3PO_4$ ,  $P_2O_5$  and  $Na_2SiO_3$ , the compound being added in an amount of 0.01 to 10.00 wt% to the phosphor layer, to provide a higher luminance residual ratio and a higher high temperature exposure characteristic than those of a convention fluorescent display device.